

SPECIFICATION

TO ALL WHOM IT MAY CONCERN:

5 Be it known that we, Steve Dispensa, Jason Sloderbeck, and Rhett Place, with residence and citizenship listed below, have invented the inventions described in the following specification entitled:

REMOTE MONITORING INFORMATION MANAGEMENT

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REMOTE MONITORING INFORMATION MANAGEMENT

RELATED APPLICATIONS

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This application claims the benefit of provisional application 60/241,048, which hereby is incorporated by reference into this application.

10 FEDERALLY SPONSORED RESEARCH OR DEVELOPMENT

Not applicable

15 MICROFICHE APPENDIX

Not applicable

20 BACKGROUND OF THE INVENTION

1. FIELD OF THE INVENTION

The invention is related to the field of communication systems, and in particular, to a system that provides wireless broadband services.

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2. DESCRIPTION OF THE PRIOR ART

People and businesses are demanding higher bandwidths from their communication providers. Consequently, the communication providers are looking for ways to increase the bandwidth of their systems using broadband technologies. Broadband technologies are generally referred to as systems that
30 deliver a bandwidth above 64 kbps. Broadband technologies can communicate over downstream channels and upstream channels. The customer receives data from another device or system over the downstream channels. The customer transmits data to another device or system over the upstream channels.

Broadband Wireline Systems

One example of a broadband technology is Digital Subscriber Line (DSL) service. DSL service carries both voice signals and data signals at the same time in both directions. DSL service also carries call information and customer data. DSL service is typically comprised of twisted-pair wires that connect a customer to a central office. The central office comprises a Digital Subscriber Line Access Multiplexer (DSLAM) that provides the DSL service to the customer. Unfortunately, the speed of DSL service is limited by the distance between the customer and the DSLAM. Customers located too far from the DSLAM may not be able to receive high-speed service. Also, there may not be enough customers within a particular area to make it economical to install a DSLAM. The quality of DSL service is also limited by the quality of the copper wire that connects the customer to the DSLAM. Furthermore, DSL service does not work over Digital Loop Carrier (DLC) lines.

Another broadband technology is cable modem service. The cable modem communicates with a device or system over a coaxial cable. The coaxial cable is typically the same coaxial cable used to receive cable television. The cable modem service can be one-way or two-way. In a two-way system, the coaxial cable carries both the upstream channels and the downstream channels. In a one-way system, the cable modem receives data on the downstream channels over the coaxial cable and transmits data on the upstream channels over a phone line. Unfortunately, the cable modem uses up valuable bandwidth on the phone line in the one-way system. Also, the upstream bandwidth is small over a phone line.

Broadband Wireless Systems

Another broadband technology is wireless broadband service. Customers that subscribe to wireless broadband service communicate with a head end. In a one-way wireless system, a transmitter antenna for the head end broadcasts wireless signals to the customer on the downstream channels. The transmitter antenna is a satellite antenna or a land-based antenna. The customer transmits